

ABSTRACT OF THE DISCLOSURE

A non-interactive development system generates a toner cloud in a development zone by an AC biased stationary electrode positioned in contact with the back surface of a movable toned dielectric donor belt having a patterned electrode structure on the front surface thereof. The AC biased electrode produces AC fringe fields near the edges of the patterned electrode structure that cause the generation of a toner cloud for developing an electrostatic latent image. The donor belt is partially wrapped around a magnetic brush to produce a toner loading zone. Isolated patterned electrodes on the donor belt near the entrance region of the toner loading zone are biased to cause unloading of toner from the donor belt, while isolated electrodes near the exit region of the toner loading zone are biased to cause toner reloading of the donor belt.